

[0089] In yet additional embodiments, it should be understood that two CE devices can initiate direct or indirect communication with one another when they appear within predetermined proximity from one another. In one example, the communication between a first power transfer antenna of a first antenna system and a second power transfer antenna of a second antenna system can be provided to acquire wireless coupling parameters corresponding to the one or more communications antennas of the second antenna system. The wireless coupling parameters may correspond to antenna systems and/or their potential coupling, association, and/or communication with other antenna systems. Further, the wireless coupling parameters can include one or more parameters that can be used in configuring a plurality of antenna systems to provide, establish, and/or maintain a network of the antenna systems allowing each antenna system to communicate with and/or implement a power transfer with one or more other antenna systems. The wireless coupling parameters can include substantially any relevant parameter that can be used in determining how to configure the network of antenna systems. For example, the wireless coupling parameters can include, but are not limited to, an identification of an antenna system, number of wireless communications antennas incorporated within an antenna system, number of power transfer antennas, positioning and/or orientation of communications and/or power antennas, communication protocols and/or methods supported, signal power and/or approximate wireless communication range or distance of each communications antenna and/or associated with each communication protocol supported, approximate wireless power transfer range of the power transfer antenna, an identification of one or more other antenna systems and/or communications antennas that are within wireless power transfer and/or wireless communication range of an antenna system, wireless signal strength between one or more other antenna systems and/or communications antennas that are within wireless power transfer and/or wireless communication range of an antenna system, wireless communication protocols and/or communication methods supported by another antenna system in communication with an antenna system, antenna positioning and/or orientation (e.g., orientation relative to a case or housing of the CE device, orientation relative to another antenna system, etc.) of the antenna systems, whether a CE device is connected to an external power source or operating over local power, battery storage levels, and other such parameters or combinations of such parameters. The wireless coupling parameters can be determined locally within an antenna system and/or received from a remote antenna system.

[0090] After the wireless coupling parameters are acquired, there can be performed authentication procedure to authenticate, allow, or enable wireless power or wireless data transfer between the first antenna system and the second antenna system based at least in part on the acquired wireless coupling parameters.

[0091] Further, in some embodiments the user may provide information and/or define some or all of the coupling configurations through a CE device that is not part of the near field wireless network. For example, the user may access a user interface through a smart phone that is remote from the near field wireless network yet in communication with one or more of the CE devices and/or antenna systems of the CE devices.

[0092] Another example of displaying the UI through a smartphone can be facilitated by the group controller generating the signal to display the UI, but the signal itself being displayed by another CE device, such as a television connected through an HDMI cable, or displaying a video signal that was transmitted wirelessly. Additionally, the UI can be implemented as a web application, where the UI is displayed by a web browser on a CE device that communicates to the group controller over a network.

[0093] Accordingly, in some embodiments, the coupling configurations are determined at a remote CE device that is remote from and not part of the near field wireless network, with the graphical user interface being generated and/or displayed on the remote CE device. The one or more configuration instructions can be wired and/or wirelessly communicated over a distributed network that is implemented beyond the bounds of the near field wireless network to a first antenna system that can be communicatively coupled with, and configured to communicate over, the distributed network.

[0094] FIG. 5 shows a representation of multiple CE devices **130-134** capable of forming a near field wireless network while one or more of CE devices **130-134** are coupled with one or more remote CE devices **512-513** through a distributed network **516**, in accordance with some embodiments. Similar to FIG. 2A, CE devices **130-134** each include one or more antenna systems **116** configured to cooperatively couple with one or more other antenna systems. The cooperation and/or coupling between antenna systems can be configured to establish a near field wireless network to allow cooperative communication and/or power transfer between antenna systems **116**, and thus the CE devices.

[0095] A user may access one or more of CE devices **130-134** through the distributed network **516** using one or more remote CE devices **512-513**. For example, a user may communicate with first CE device **130** through the distributed network **516** and a transceiver and/or network interface **520** of the first CE device. Although not required, in some implementations, first CE device **130** may be designated as the group controller of the near field wireless network. As introduced above, the first remote CE device **512** may include a display that is configured to display a user interface that allows the user to obtain information about one or more of CE devices **130-134** and/or modify and/or define some or all of the coupling configurations, which may at least in part dictate with which one or more of the plurality of antenna systems each antenna system is to directly communicate.

[0096] Accordingly, some embodiments provide systems and methods to configure and/or modify configurations of antenna systems when multiple antenna systems are available in and/or are capable of forming a near-field wireless network. The configuration can be done remotely via a remote CE device (e.g., a remote mobile device like a cell phone, tablet, or the like). Typically, the remote CE device includes and/or couples with a display to provide the user with coupling parameters (e.g., wireless network capability, communication protocols, and/or other such information) and can access to the distributed network.

[0097] Additionally or alternatively, one or more servers and/or services **524** may act as an intermediary between a remote CE device **512** and one or more of the CE device **130-134** capable of forming the near field wireless network. Similarly, in some embodiments, the server or service **524**